



EXPRESS MAIL NO. EV336594145US

Sheet 1 of 1

FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 890050.447	APPLICATION NO. 10/702,136
		APPLICANTS Naoki Hanashima et al.	
		FILING DATE November 5, 2003	GROUP ART UNIT 2874

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
JMB		10-068910	03/10/98	JP (+ Abstract in English)		
JMB		10-339848	12/22/98	JP (+ Abstract in English)		
JMB		11-119158	04/30/99	JP (+ Abstract in English)		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

JMB		Bakke, T. et al., "Vertically Tapered Core Polymeric Optical Spot-Size Transformer," <i>Electronics Letters</i> 37(24):1475-1476, November 2001.
JMB		Bakke, T. et al., "Polymeric Buried Core Adiabatic Optical Spot-Size Transformer," <i>Electronics Letters</i> 38(7):319-321, March 2002.
JMB		Mizuno, T. et al., "Low-Loss 1.5%-Delta Arrayed Waveguide Grating with Narrow Laterally Tapered Spotsizes Converter," <i>Electronics Letters</i> 37(24):1452-1454, November 2001.
JMB		Mitomi, O. et al., "Design of a Single-Mode Tapered Waveguide for Low-Loss Chip-to-Fiber Coupling," <i>IEEE Journal of Quantum Electronics</i> 30(8):1787-1793, August 1994.
JMB		Shani, Y. et al., "Efficient Coupling of a Semiconductor Laser to an Optical Fiber by Means of a Tapered Waveguide on Silicon," <i>Appl. Phys. Lett.</i> 55(23):2389-2391, December 1989.
JMB		Spühler, M. et al., "A Very Short Planar Silica Spot-Size Converter Using a Nonperiodic Segmented Waveguide," <i>Journal of Lightwave Technology</i> 16(9):1680-1685, September 1998.

EXAMINER J Martin B...	DATE CONSIDERED 03/31/2005
---------------------------	-------------------------------

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).